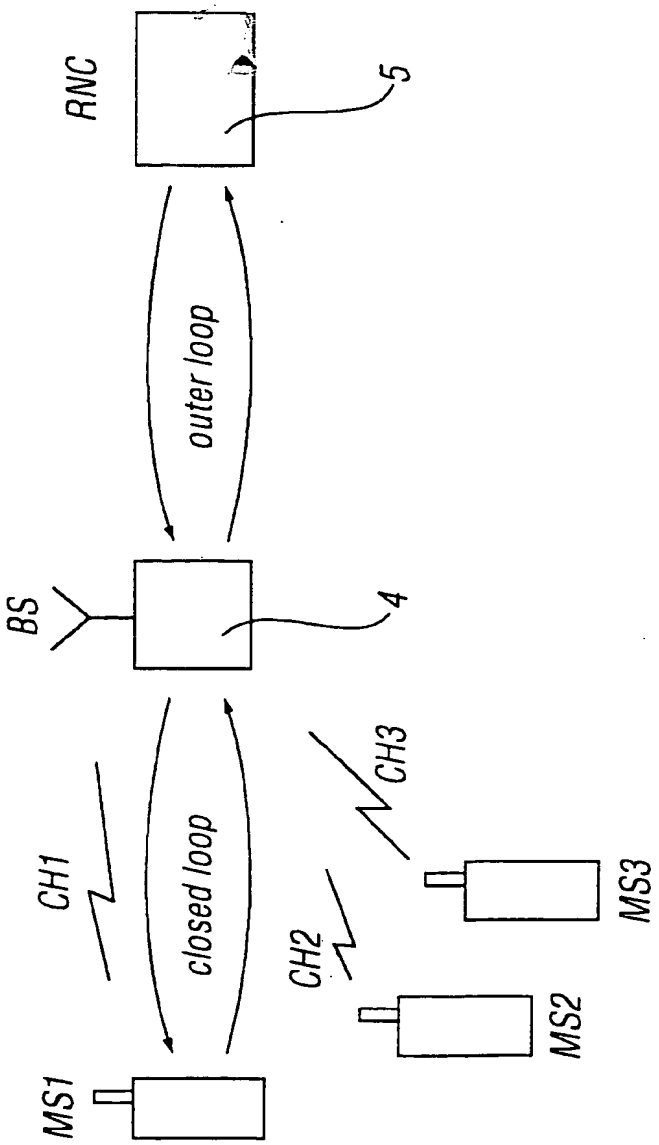

FIG. 1

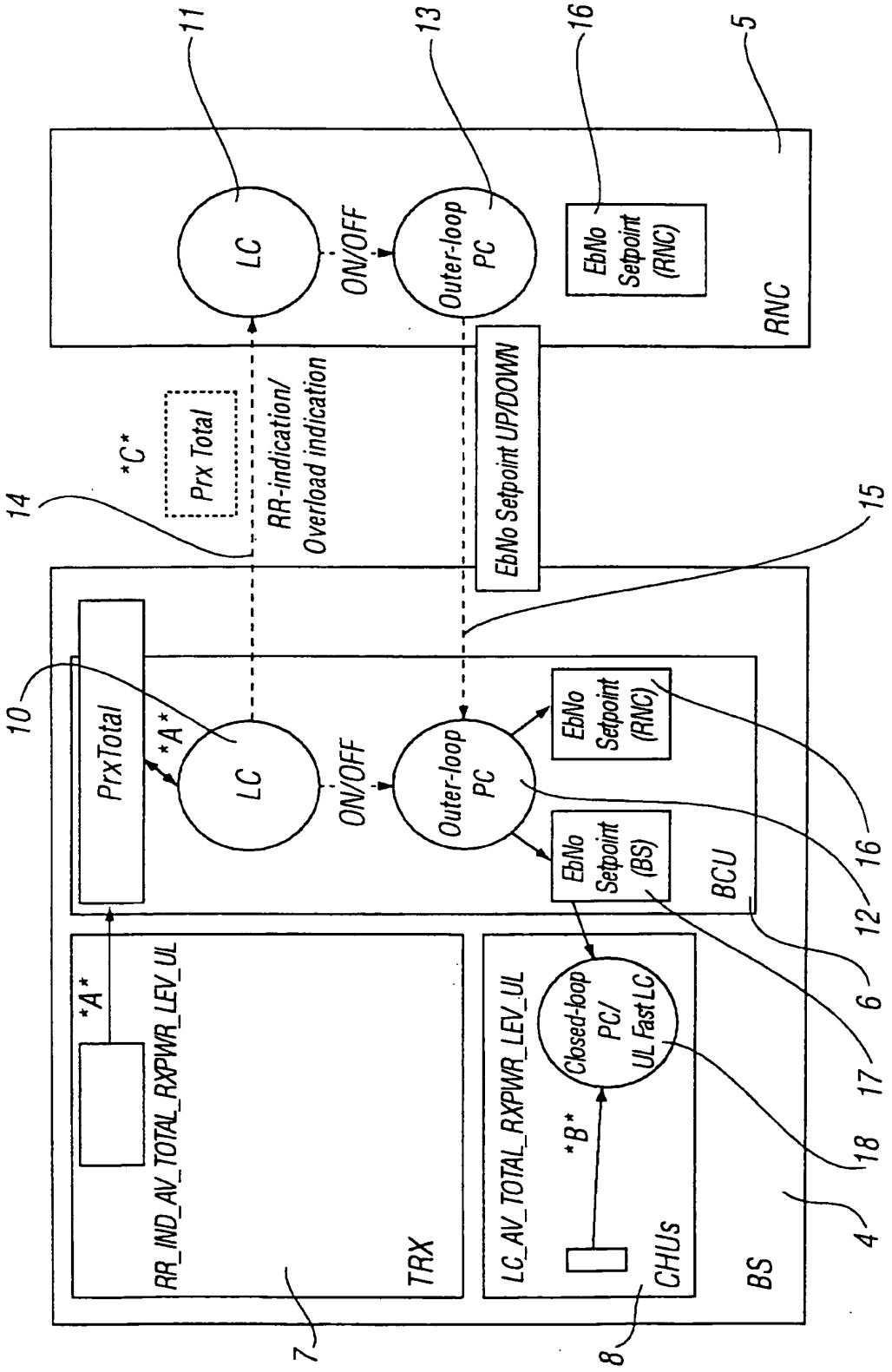
11
13
16
5
LC
ON/OFF
Outer-loop PC
EbNo Setpoint (RNC)
RNC
C
Prx Total
RR-indication/ Overload indication
EbNo Setpoint UP/DOWN
14
15
10
PrxTotal
A
LC
ON/OFF
Outer-loop PC
EbNo Setpoint (RNC)
EbNo Setpoint (BS)
BCU
16
12
6
17
18
4
A
RR_IND_AV_TOTAL_RXPWR_LEV_UL
TRX
7
B
LC_AV_TOTAL_RXPWR_LEV_UL
Closed-loop PC/ UL Fast LC
CHUs
8
BS

FIG. 2

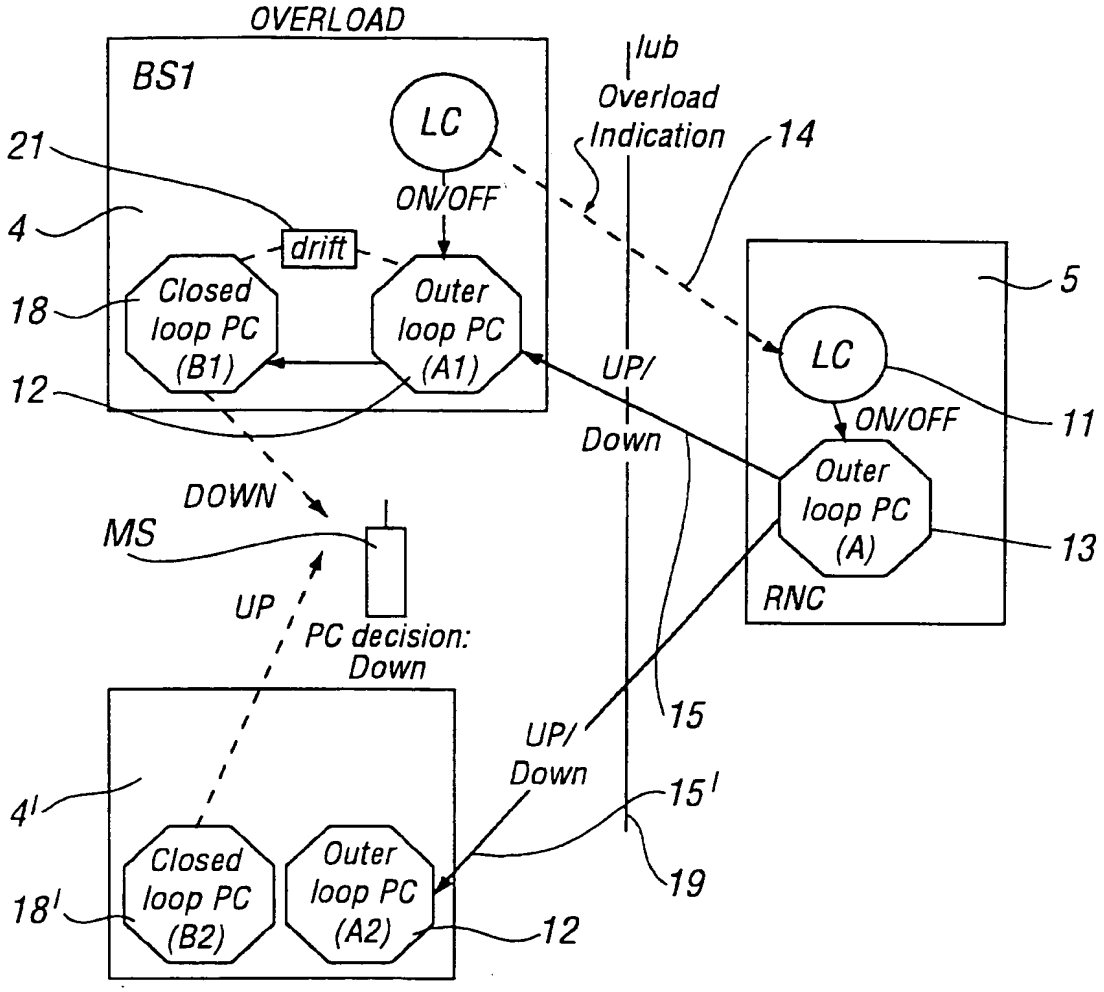
OVERLOAD
BS1
LC
ON/OFF
drift
Closed loop PC (B1)
Outer loop PC (A1)
21
4
18
12
Iub
Overload Indication
14
5
LC
ON/OFF
11
Outer loop PC (A)
13
RNC
UP/ Down
DOWN
MS
UP
PC decision: Down
15
UP/ Down
15'
19
4'
18'
Closed loop PC (B2)
Outer loop PC (A2)
12

FIG. 3

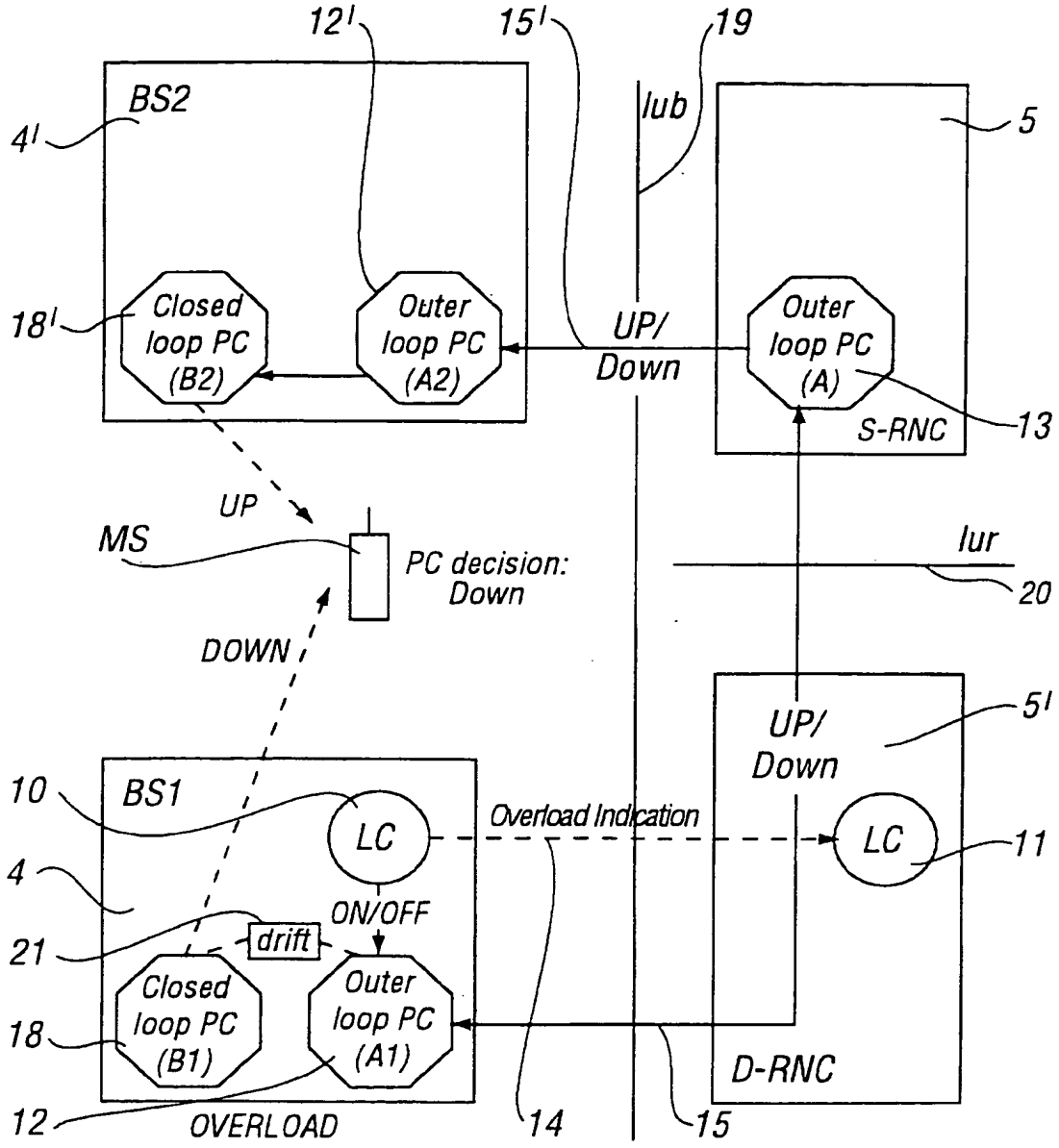
12'
15'
19
BS2
4'
Iub
5
18'
Closed loop PC (B2)
Outer loop PC (A2)
UP/ Down
Outer loop PC (A)
S-RNC
13
UP
MS
PC decision: Down
Iur
20
DOWN
5'
UP/ Down
10
BS1
LC
Overload Indication
LC
11
4
ON/OFF
21
drift
Closed loop PC (B1)
Outer loop PC (A1)
18
D-RNC
12
OVERLOAD
14
15

FIG. 4

TABLE 1

RNC *A*	Iub *Command*	BS1/BS2 *A1/A2*	BS2 *B2*	BS1 *B1*	BS1 *DriftB1<>A1*
4.1dB		4.1db	4.1db	4.1db	0.0db
Normal functionality					
4.0	StepDown	4.0	4.0	4.0	0.0
4.5	StepUp	4.5	4.5	4.5	0.0
Cell 1 is overloaded, OLPC/BS1 OFF					
5.0	StepUP	5	5	4.5	+0.5
4.9	StepDown	4.9	4.9	4.4	+0.5
Indication to RNC OLPC/RNC OFF					
4.8	Stepdown	4.8	4.3	4.3	+0.5
Cell1 is in normal load, OLPC/BS1 ON					
4.7	StepDown	4.7	4.7	4.3	+0.4
4.6	StepDown	4.6	4.6	4.3	+0.3
4.5	StepDown	4.5	4.5	4.3	+0.2
RNC notices that cell 1 is not overloaded OLPC/RNC ON					
5.0	StepUP	5.0	5.0	4.8	+0.2
4.9	StepDown	4.9	4.9	4.8	+0.1
4.8	StepDown	4.8	4.8	4.8	0.0
4.7	stepDown	4.7	4.7	4.7	0.0

FIG. 5

TABLE 2

RNC *A*	Iub *Command*	BS1/BS2 *A1/A2*	BS2 *B2*	BS1 *B1*	BS1 *DriftB1<>A1*
4.1 dB (=EbNo1)		4.1db	4.1db	4.1db	0.0db
Normal functionality					
4.0	StepDown	4.0	4.0	4.0	0.0
4.5	StepUp	4.5	4.5	4.5	0.0
Cell 1 is overloaded, OLPC/BS1 OFF					
5.0	StepUP	5	5	4.5	+0.5
5.5	StepUP	5.5	5.5	4.5	+1.0
Indication to RNC OLPC/RNC OFF					
5.4	Stepdown	5.4	5.4	4.4	+1.0
Cell1 is in normal load, OLPC/BS1 ON					
5.3	StepDown	5.3	5.3	4.4	+1.0
5.2	StepDown	5.2	5.2	4.4	+0.9
5.1 (=EbNo1)	StepDown	5.1	5.1	4.4	+0.8
RNC notices that cell 1 is not overloaded OLPC/RNC ON					
4.9 (-0.2)	StepDown	4.9	4.9	4.4	+0.5
4.7 (-0.2)	StepDown	4.7	4.7	4.4	+0.3
4.5 (-0.2)	StepDown	4.5	4.5	4.4	+0.1
4.3 (-0.2)	StepDown	4.3	4.3	4.3	No drift between BS and RNC EbNo's
4.1 (-0.2) (=EbNo1,the RNC-drift=0)	StepDown	4.1	4.1	4.1	

FIG. 6

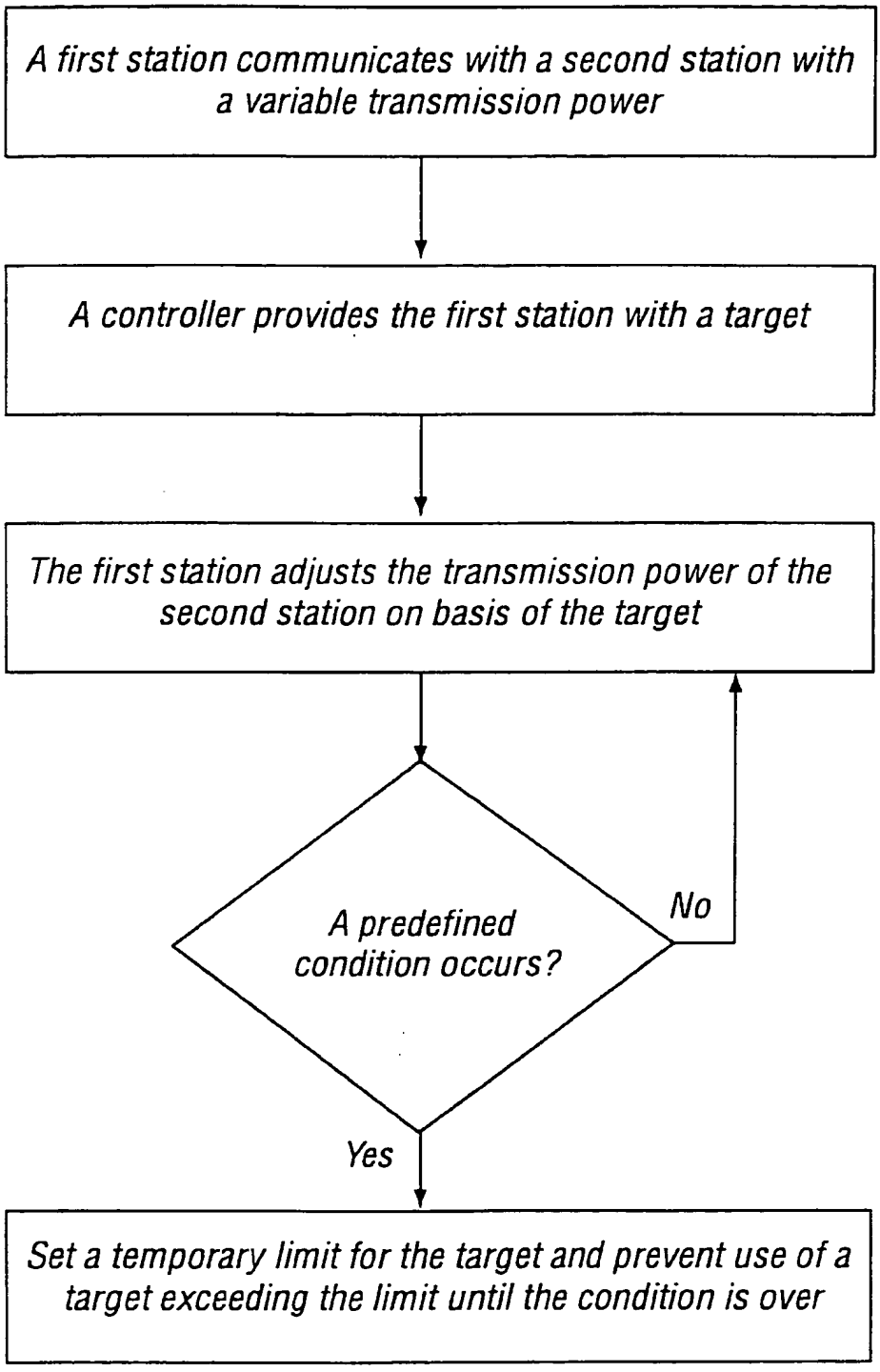
A first station communicates with a second station with a variable transmission power
A controller provides the first station with a target
The first station adjusts the transmission power of the second station on basis of the target
A predefined condition occurs?
No
Yes
Set a temporary limit for the target and prevent use of a target exceeding the limit until the condition is over

FIG. 7

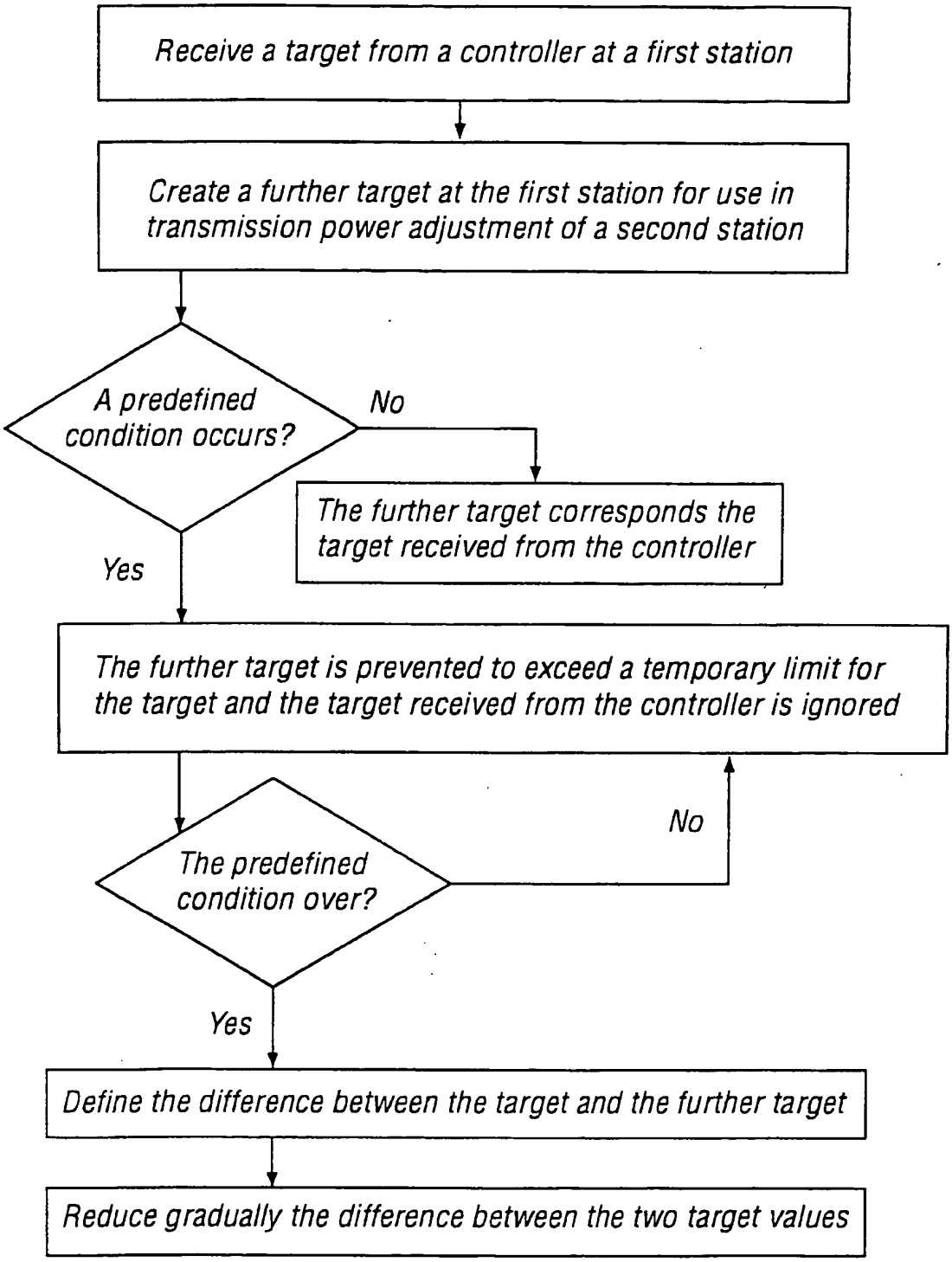
Receive a target from a controller at a first station
Create a further target at the first station for use in transmission power adjustment of a second station
A predefined condition occurs?
No
The further target corresponds the target received from the controller
Yes
The further target is prevented to exceed a temporary limit for the target and the target received from the controller is ignored
The predefined condition over?
No
Yes
Define the difference between the target and the further target
Reduce gradually the difference between the two target values

FIG. 8